

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Original) A tumor targeting unit comprising a peptide sequence:



or a pharmaceutically or physiologically acceptable salt thereof, wherein,

Dd-Ee-Ff is Aa-Bb-Cc, wherein

Aa, is isoleucine, leucine or *tert*-leucine, or a structural or functional analogue thereof;

Bb is arginine, homoarginine or canavanine, or a structural or functional analogue thereof;

Cc is serine or homoserine, or a structural or functional analogue thereof;

Rr are each, independently, any amino acid residue or structural or functional analogues thereof;

n and m, independently, are integers 0 - 4 and the sum of n and m does not exceed four, and,

Cy and Cyy are entities capable of forming a cyclic structure by means of an amide or ester bond,

wherein the peptide is cyclic or forms part of a cyclic structure.

2. (Original) The tumor targeting unit according to claim 1, wherein a cyclic structure is formed by a lactam or lactone bond.

3. (Currently Amended) The tumor targeting unit according to claim 2, wherein one of Cy and Cyy is aspartic acid, glutamic acid or a structural or functional analogue thereof thereof, and the other is lysine, ornithine or a structural or functional analogue thereof.

4. (Currently Amended) The tumor targeting unit according to ~~any one of claims 1 to 3~~ claim 1, wherein the sum of n and m is 2-4.

5. (Currently Amended) The tumor targeting unit according to ~~any one of claims 1 to 3~~ claim 1, wherein either n or m or both are zero.

6. (Currently Amended) The tumor targeting unit according to ~~any one of claims 1 to 5~~ claim 1, wherein Rr is any amino acid residue, except histidine or lysine.

7. (Original) The tumor targeting unit according to claim 6, wherein Rr is selected from the group consisting of glycine, arginine and structural or functional analogues thereof.

8. (Currently Amended) The tumor targeting unit according to ~~any one of claims 1 to 7~~ claim 1, wherein Dd-Ee-Ff is LRS.

9. (Currently Amended) The tumor targeting unit according to claim 8, having the formula DLRSK (SEQ ID NO. 1), DGRGLRSK (SEQ ID NO. 2), DRGLRSK (SEQ ID NO. 3), DRYYNLRSK (SEQ ID NO. 4), DSRYNLRSK (SEQ ID NO. 5), DLRSGRK (SEQ ID NO. 6), DLRSGRGK (SEQ ID NO. 7), OLRSE (SEQ ID NO. 8), OLRSGRGE (SEQ ID NO. 9) or KLRSK (SEQ ID NO. 10).

10. (Currently Amended) The tumor targeting unit according to ~~any one of the previous claims~~ claim 1, wherein the unit is derivatized, activated, protected, resin bound or other support bound.

11. (Currently Amended) A tumor targeting agent comprising at least one targeting unit ~~of any one of claims 1 to 10~~ according to claim 1, coupled to at least one effector unit.

12. (Original) The tumor targeting agent according to claim 11, wherein the effector unit is a directly or indirectly detectable agent or a therapeutic agent.

13. (Original) The tumor targeting agent according to claim 12, wherein the detectable agent comprises an affinity label, a fluorescent or luminescent label, a chelator, a metal complex, an enriched isotope, radioactive material or a paramagnetic substance.

14. (Original) The tumor targeting agent according to claim 13, wherein the detectable agent is a rare earth metal.

15. (Original) The tumor targeting agent according to claim 12, wherein the therapeutic agent is selected from the group consisting of cytotoxic and cytostatic substances and radiation emitting substances.

16. (Original) The tumor targeting agent according to claim 12, wherein the detectable agent is gadolinium.

17. (Original) The tumor targeting agent according to claim 15, wherein the therapeutic agent comprises doxorubicin, daunorubicin, methotrexate or boron.

18. (Currently Amended) The tumor targeting agent according to ~~any of claims 11–17~~ claim 11, further comprising an optional unit.

19. (Currently Amended) A diagnostic or pharmaceutical composition comprising at least one targeting unit according to ~~any one of claims 1 to 10, or at least one targeting agent according to any one of claims 11 to 18~~ claim 1.

20. (Currently Amended) ~~Use of a targeting unit according to any one of claims 1 to 10, or a targeting agent according to any one of claim 11 to 18~~ A method for the preparation of a medicament for the treatment of cancer or cancer related diseases comprising using a targeting unit according to claim 1.

21. (Currently Amended) The ~~use~~ method according to claim 20, wherein said cancer or cancer related disease is a solid tumor.

22. (Currently Amended) The use method according to claim 21, wherein said cancer is selected from the group consisting of carcinoma, sarcoma, melanoma or metastases.

23. (Original) A method for treating cancer or cancer related diseases, comprising providing to a patient in need thereof a therapeutically effective amount of a pharmaceutical composition according to claim 19.

24. (Original) The method according to claim 23, wherein said cancer or cancer related disease is a solid tumor.

25. (Original) The method according to claim 24, wherein said solid tumor is selected from the group consisting of carcinoma, sarcoma, melanoma or metastases.

26. (New) A diagnostic or pharmaceutical composition comprising at least one targeting agent according to claim 11.

27. (New) A method for the preparation of a medicament for the treatment of cancer or cancer related diseases comprising using a targeting agent according to claim 11.

28. (New) A method for treating cancer or cancer related diseases, comprising providing to a patient in need thereof a therapeutically effective amount of a pharmaceutical composition according to claim 26.